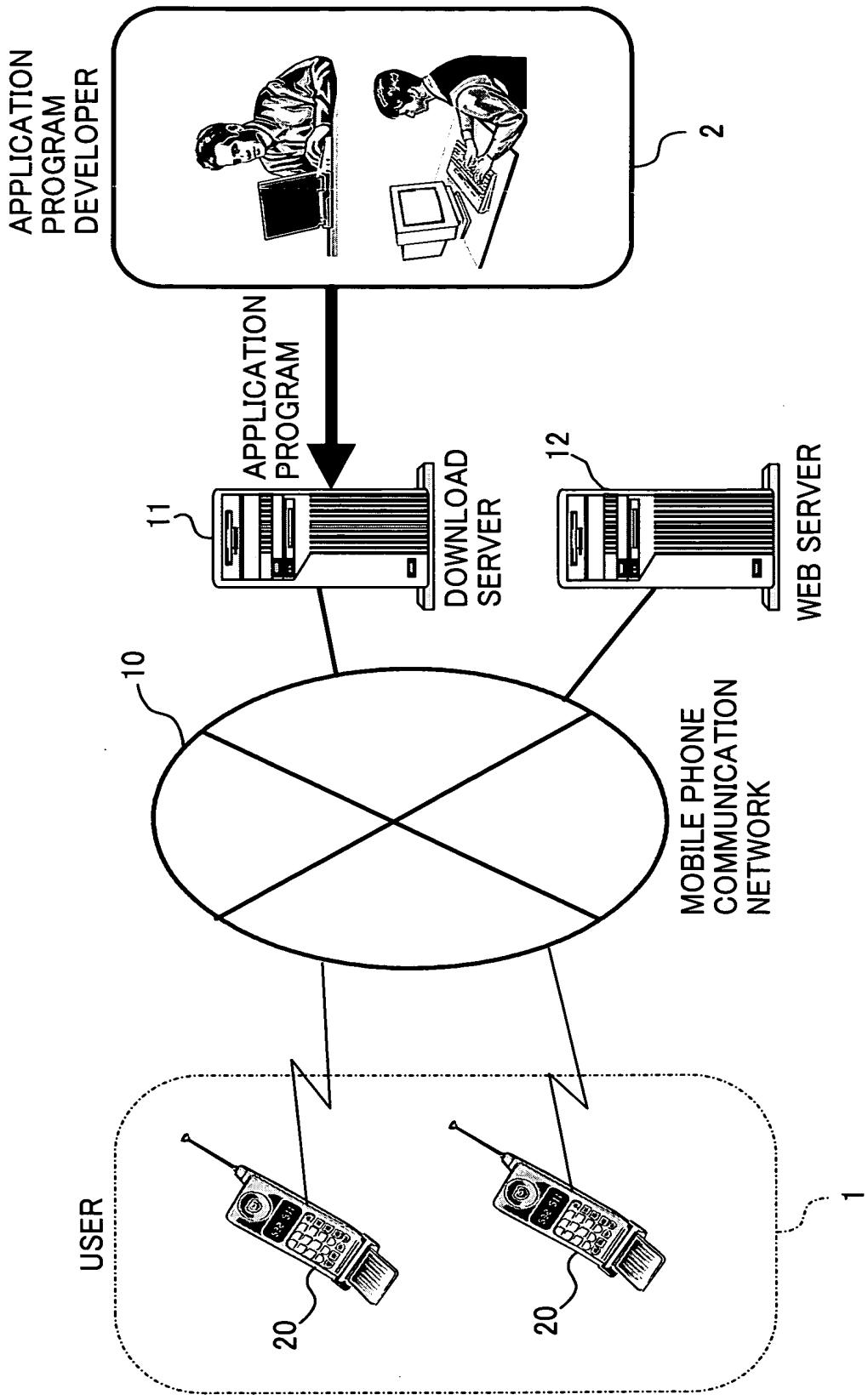
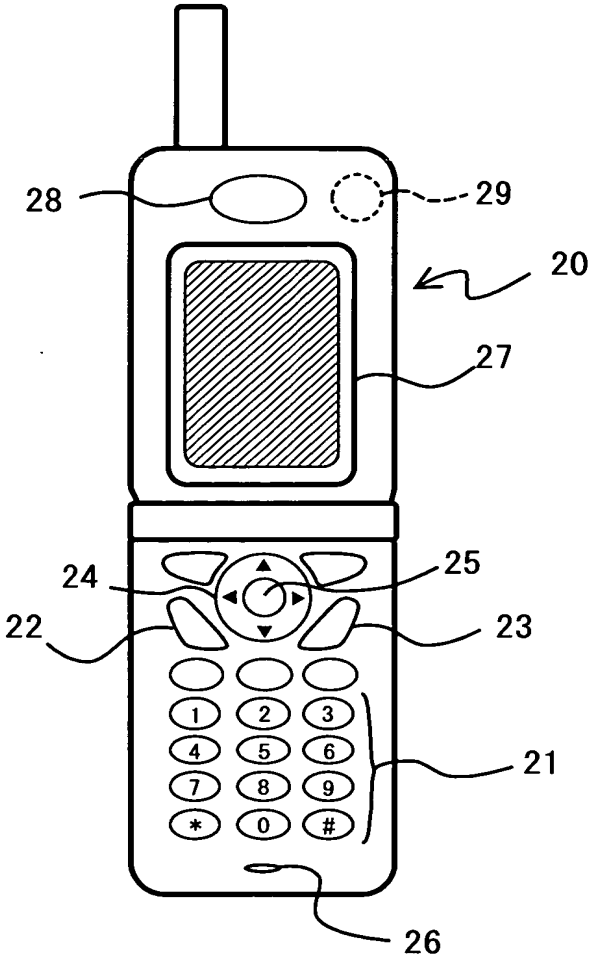
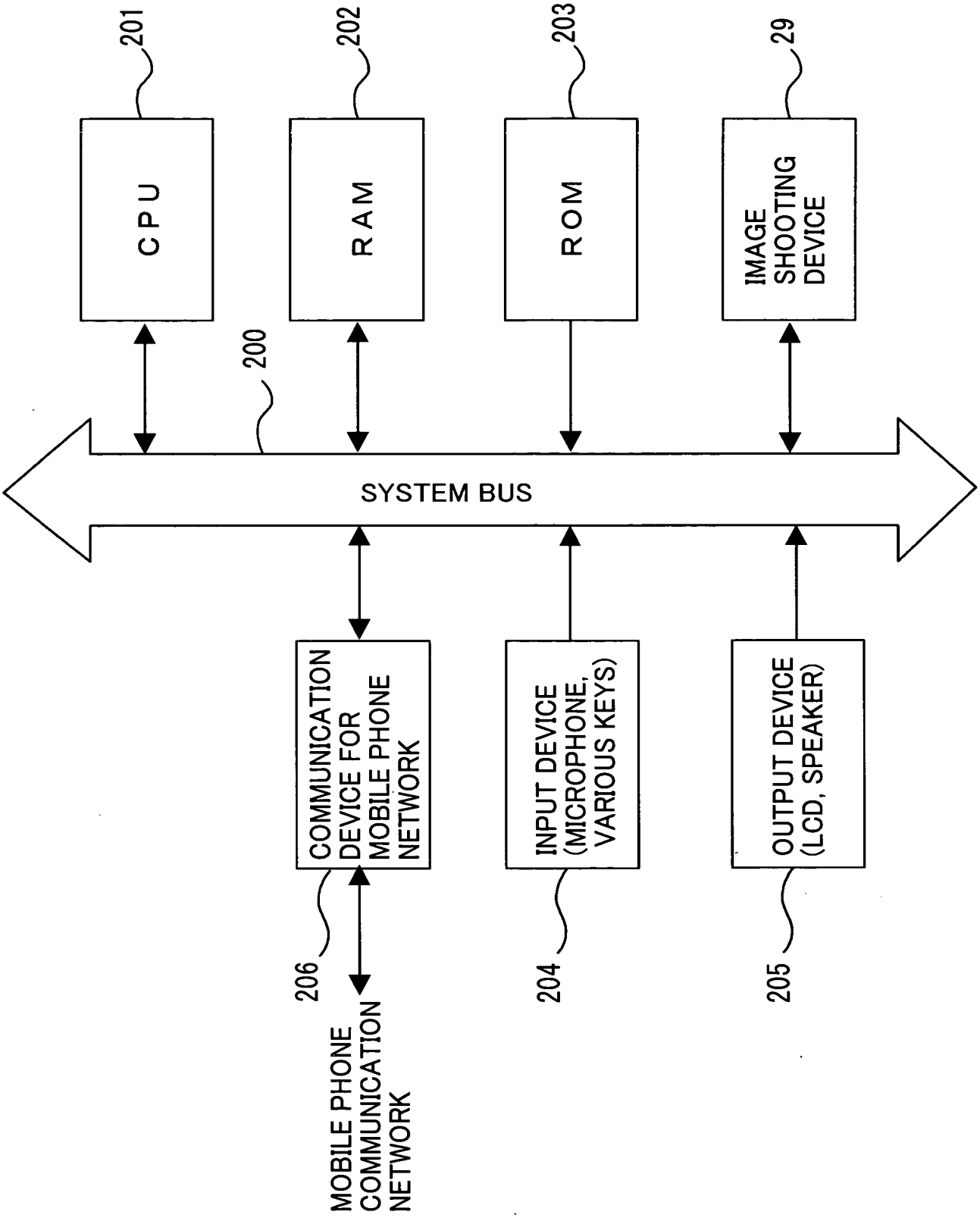
[Fig. 1]


APPLICATION PROGRAM DEVELOPER
2
APPLICATION PROGRAM
11
DOWNLOAD SERVER
12
WEB SERVER
10
MOBILE PHONE COMMUNICATION NETWORK
USER
1
20
20

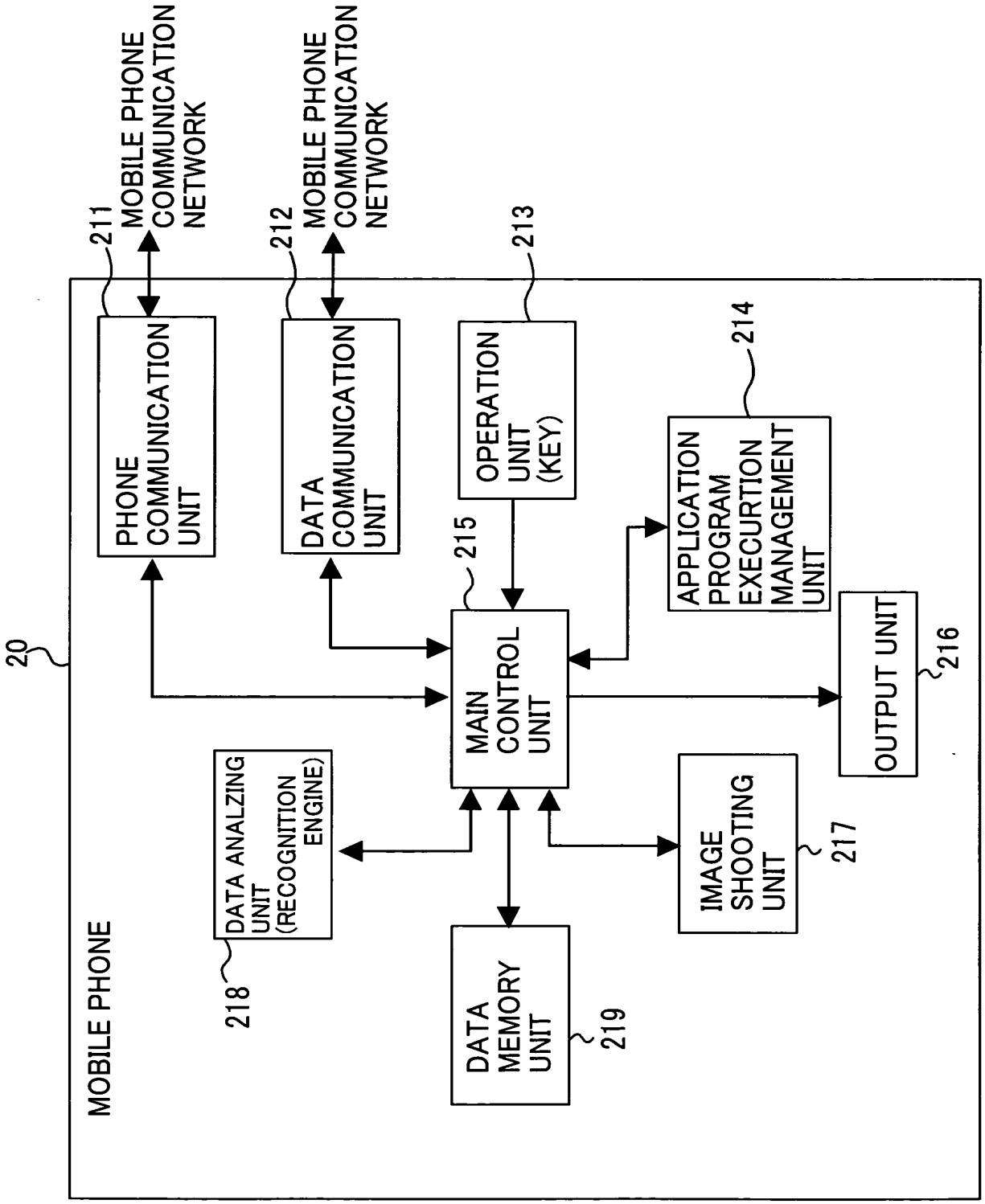
[FIG. 2]



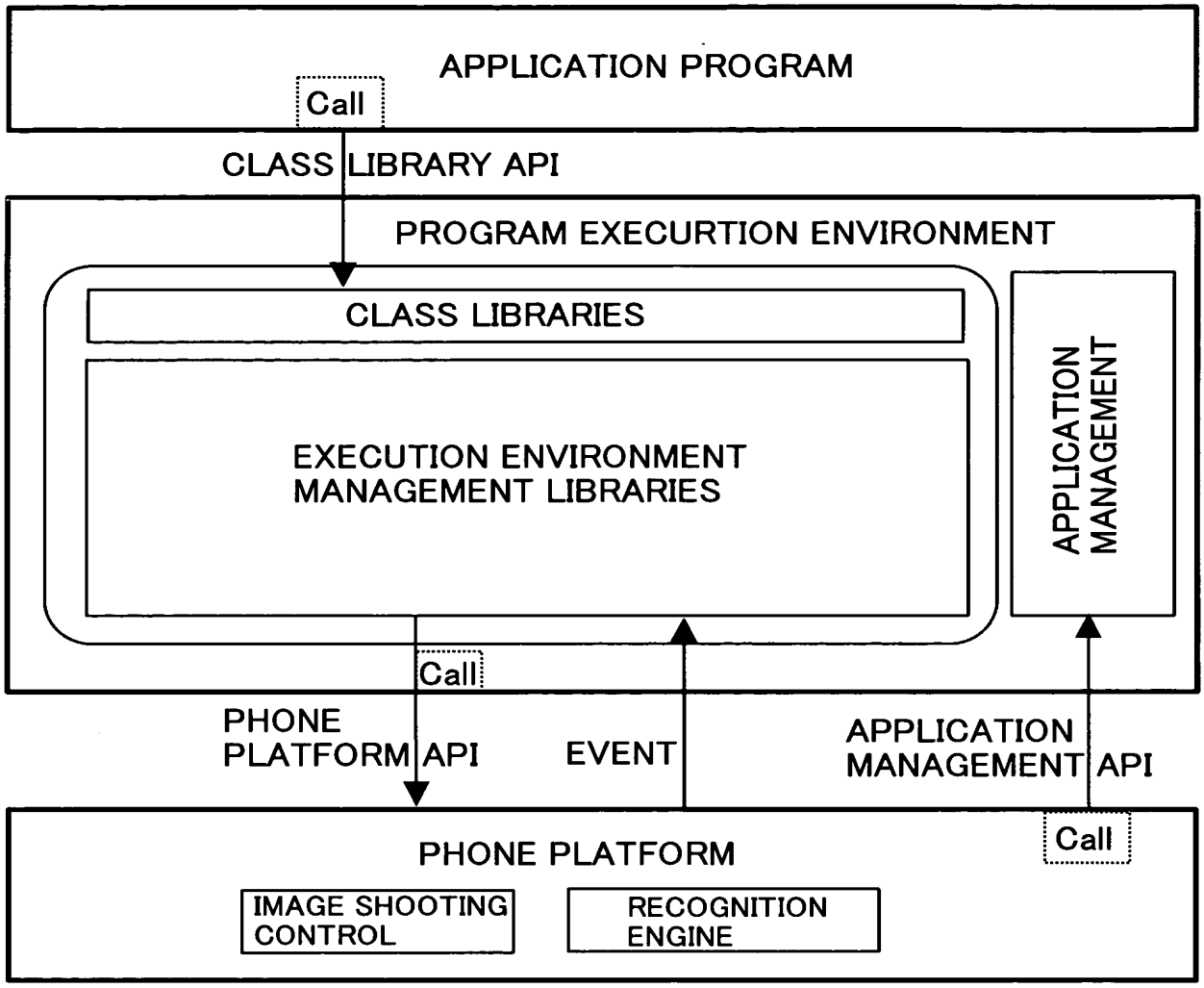
[FIG. 3]


201
202
203
29
CPU
RAM
ROM
IMAGE SHOOTING DEVICE
200
SYSTEM BUS
COMMUNICATION DEVICE FOR MOBILE PHONE NETWORK
INPUT DEVICE (MICROPHONE, VARIOUS KEYS)
OUTPUT DEVICE (LCD, SPEAKER)
206
204
205
MOBILE PHONE COMMUNICATION NETWORK

[FIG. 4]

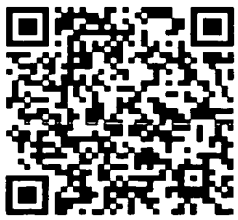

MOBILE PHONE
20
MOBILE PHONE COMMUNICATION NETWORK
211
MOBILE PHONE COMMUNICATION NETWORK
212
213
214
PHONE COMMUNICATION UNIT
DATA COMMUNICATION UNIT
OPERATION UNIT (KEY)
APPLICATION PROGRAM EXECURTION MANAGEMENT UNIT
215
MAIN CONTROL UNIT
OUTPUT UNIT
216
DATA ANALZING UNIT (RECOGNITION ENGINE)
218
IMAGE SHOOTING UNIT
217
DATA MEMORY UNIT
219

[FIG. 5]


APPLICATION PROGRAM
Call
CLASS LIBRARY API
PROGRAM EXECURTION ENVIRONMENT
CLASS LIBRARIES
EXECUTION ENVIRONMENT MANAGEMENT LIBRARIES
APPLICATION MANAGEMENT
Call
PHONE PLATFORM API
EVENT
APPLICATION MANAGEMENT API
Call
PHONE PLATFORM
IMAGE SHOOTING CONTROL
RECOGNITION ENGINE

[FIG. 6A]

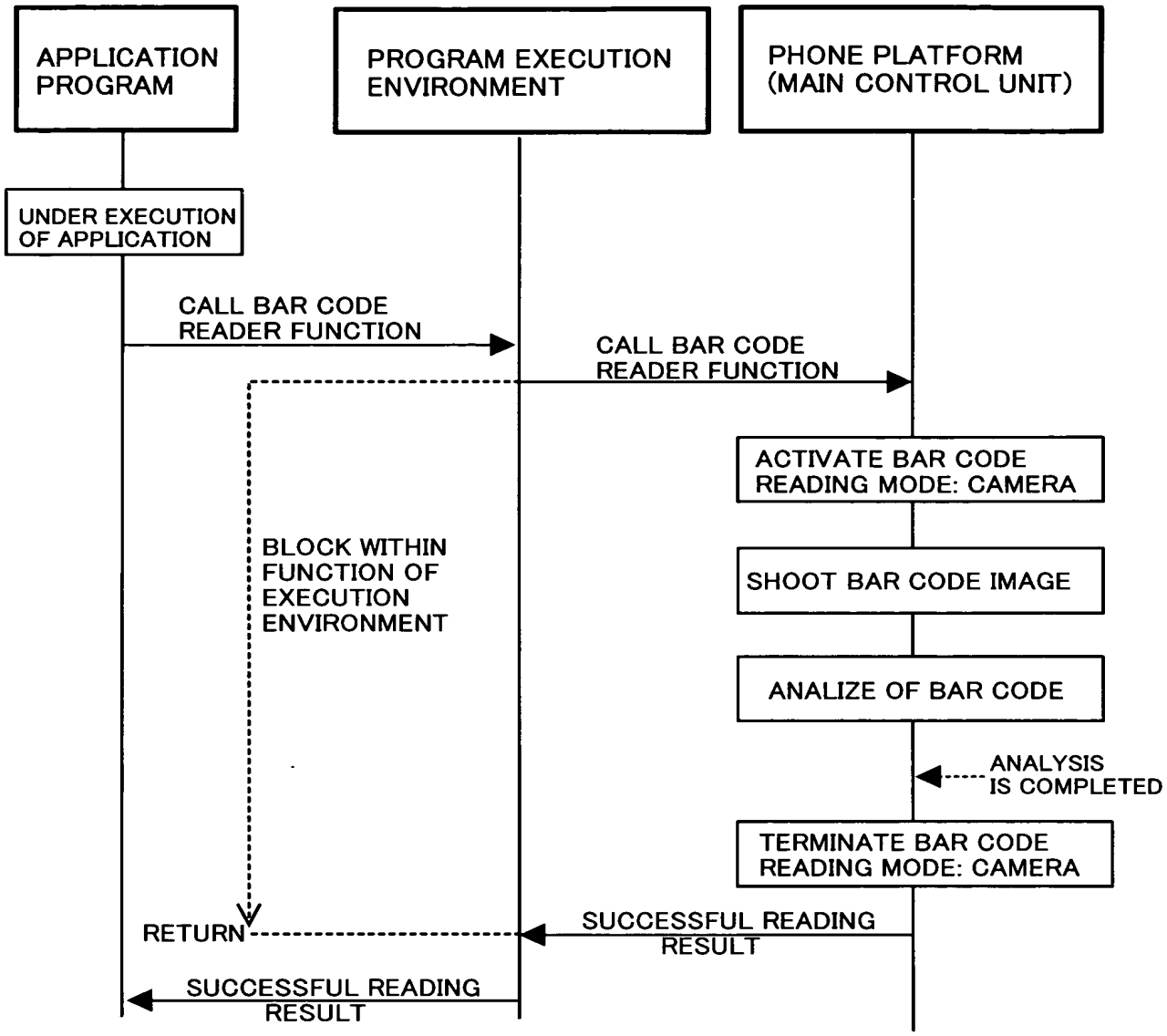
[FIG. 6B]



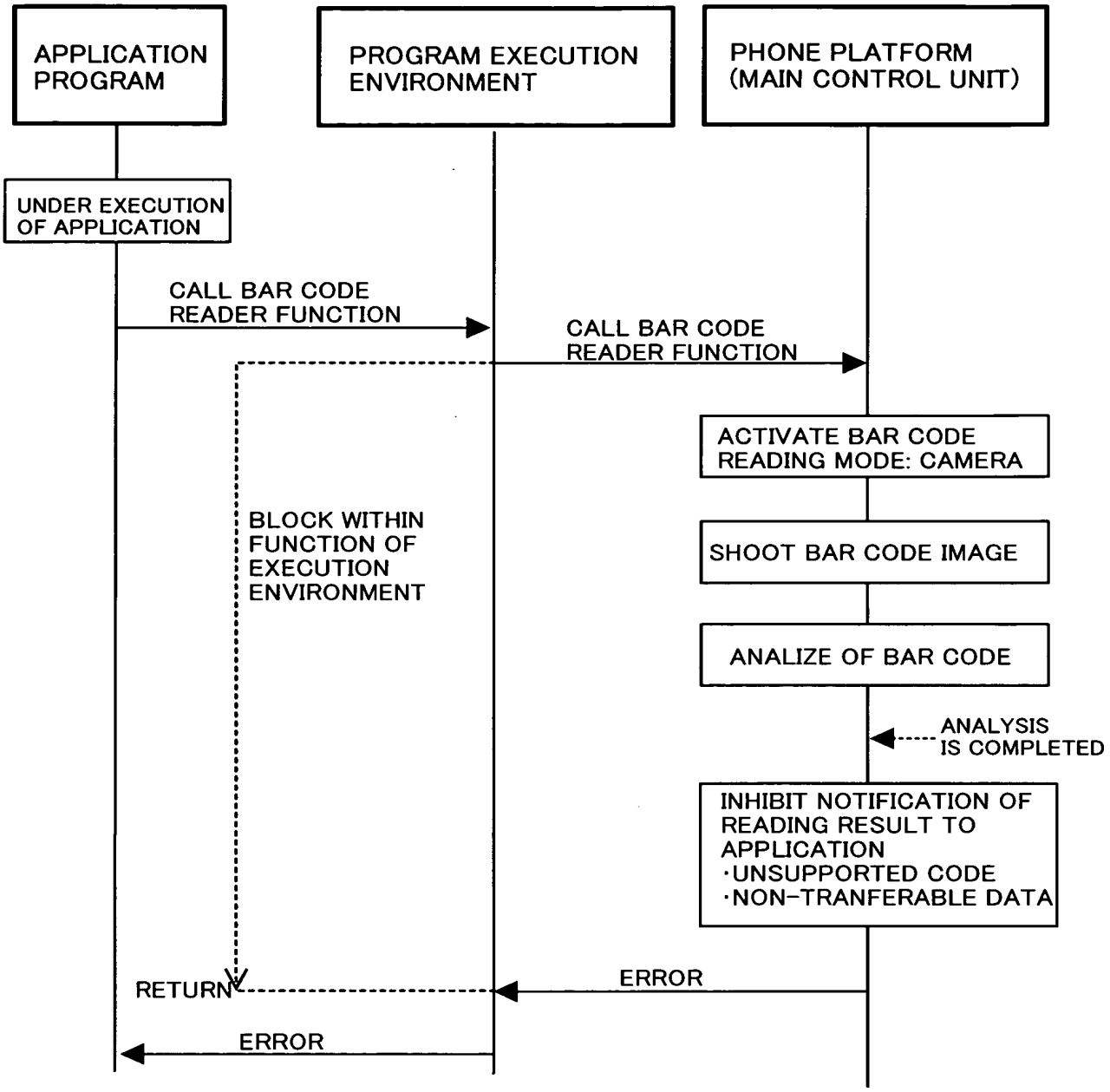
[FIG. 7]

STANDARD HEADER PART	MODE INDICATOR
	INDICATOR FOR THE NUMBER OF CHARACTERS
EXTENSION HEADER PART	EXTENSION HEADER IDENTIFIER
	MAKER IDENTIFIER
	QR CODE EXTENSION VERSION IDENTIFIER
	ENCRYPTION IDENTIFIER
	ENCRYPTION ALGORITHM VERSION IDENTIFIER
	COPYRIGHT IDENTIFIER
DATA PART	DATA TYPE IDENTIFIER
	DATA LENGTH
	DATA BODY
	DATA TYPE IDENTIFIER
	DATA LENGTH
	DATA BODY
	...
	...
	END PATTERN

[FIG. 8]


APPLICATION PROGRAM
PROGRAM EXECUTION ENVIRONMENT
PHONE PLATFORM (MAIN CONTROL UNIT)
UNDER EXECUTION OF APPLICATION
CALL BAR CODE READER FUNCTION
CALL BAR CODE READER FUNCTION
ACTIVATE BAR CODE READING MODE: CAMERA
BLOCK WITHIN FUNCTION OF EXECUTION ENVIRONMENT
SHOOT BAR CODE IMAGE
ANALIZE OF BAR CODE
ANALYSIS IS COMPLETED
TERMINATE BAR CODE READING MODE: CAMERA
RETURN
SUCCESSFUL READING RESULT
SUCCESSFUL READING RESULT

[FIG. 9]


APPLICATION PROGRAM
PROGRAM EXECUTION ENVIRONMENT
PHONE PLATFORM (MAIN CONTROL UNIT)
UNDER EXECUTION OF APPLICATION
CALL BAR CODE READER FUNCTION
CALL BAR CODE READER FUNCTION
ACTIVATE BAR CODE READING MODE: CAMERA
BLOCK WITHIN FUNCTION OF EXECUTION ENVIRONMENT
SHOOT BAR CODE IMAGE
ANALIZE OF BAR CODE
ANALYSIS IS COMPLETED
INHIBIT NOTIFICATION OF READING RESULT TO APPLICATION
·UNSUPPORTED CODE
·NON-TRANFERABLE DATA
RETURN
ERROR
ERROR